

## State Route 70/Erle Interchange Option D Cost Estimate Summary

03-YUB-65, PM 7.5/9.2

03-YUB-70, PM 7.0/9.0

EA 03-3E810K

### PROJECT DESCRIPTION:

**Limits:** Erle Road / SR 70 Interchange Improvements (PM 10.155). Erle Road improvements limits are from Chestnut Road to Edgewater Circle. SR 70 improvement limits are from approximately .5 miles north and south Erle Interchange.

**Proposed Improvement (Scope):** Major Improvement features includes widening the existing overcrossing and overhead, ramp widening, new ramp re-configurations, and Erle and Lindhurst Road widening.  
NB ramps = existing L-6, SB ramps = new partial L-9.

**Alternative:** Option D

### SUMMARY OF PROJECT COST ESTIMATE

TOTAL ROADWAY ITEMS	\$	14,120,000
TOTAL STRUCTURE ITEMS	\$	7,180,000
SUBTOTAL CONSTRUCTION COSTS	\$	21,300,000
TOTAL RIGHT OF WAY ITEMS	\$	2,430,000
TOTAL ALTERNATIVE COST	\$	23,730,000

Reviewed by District Program Manager

\_\_\_\_\_  
(Signature)

Approved by Project Manager

\_\_\_\_\_  
(Signature)

Date

Phone Number

## I. ROADWAY ITEMS

<u>Section 1. Earthwork</u>	<u>Quantity</u>	<u>Unit</u>	<u>Unit Price</u>	<u>Item Cost</u>	<u>Section Cost</u>
Roadway Excavation	10,000	CY	\$ 20.00	\$ 200,000	
Imported Borrow (NB ramp, Erle, and Lindhurst)	170,000	CY	\$ 17.00	\$ 2,890,000	
Remove Curb and Gutter	-	FT	\$ 6.00	\$ -	
Remove SW	-	SF	\$ 3.00	\$ -	
Remove PCC Pavement	-	SF	\$ 3.00	\$ -	
Remove AC Pavement	-	SF	\$ 3.00	\$ -	
Clearing & Grubbing	1	LS	\$ 25,000.00	\$ 25,000	
Remove Unsuitable Material	-		\$ -	\$ -	
Develop Water Supply	-		\$ -	\$ -	
Roadway Obliteration	15,400	SQYD	\$ 3.00	\$ 46,200	
<b>Subtotal Earthwork</b>					<b>\$ 3,161,200</b>

<u>Section 2. Pavement Structural Section</u>	<u>Quantity</u>	<u>Unit</u>	<u>Unit Price</u>	<u>Item Cost</u>	<u>Section Cost</u>
PCC Pavement (1.0' Depth) Curb and Gutter		CY	\$ 625.00	\$ -	
PCC Pavement (1.0' Depth) Median Curb		CY	\$ 625.00	\$ -	
PCC Pavement (0.5' Depth) Medians		CY	\$ 300.00	\$ -	
PCC Pavement (0.5' Depth) SW	549	CY	\$ 300.00	\$ 164,820	
Asphalt Concrete (0.2'-0.7' Depth)	8,534	TON	\$ 100.00	\$ 853,434	
Open Graded AC (___ Depth)			\$ -	\$ -	
Cement-Treated Base			\$ -	\$ -	
Aggregate Base (1.5' Depth)	25,305	CY	\$ 60.00	\$ 1,518,300	
Treated Permeable Base			\$ -	\$ -	
Aggregate Subbase			\$ -	\$ -	
Pavement Reinforcing Fabric			\$ -	\$ -	
Asphaltic Emulsion Binder			\$ -	\$ -	
Crack Sealing			\$ -	\$ -	
AC Cold Planing		SF	\$ 1.00	\$ -	
Shoulder Backing			\$ -	\$ -	
<b>Subtotal Pavement Structural Section</b>					<b>\$ 2,536,554</b>

<u>Section 3. Drainage</u>					<u>Section Cost</u>
	\$ 8,046,091	x (10%) =	\$ 804,609		
(Subtotal Sections 1, 2, 4 & 5)					

**Subtotal Drainage Items** \$ 804,609

**Subtotal Drainage** \$ 804,609

<b><u>Section 4. Specialty Items</u></b>	<b><u>Quantity</u></b>	<b><u>Unit</u></b>	<b><u>Unit Price</u></b>	<b><u>Item Cost</u></b>	<b><u>Section Cost</u></b>
Misc Frontage Work		LS	\$ 300,000	\$ 300,000	
Retaining Walls	<u>1</u>	LS	\$ 500,000	\$ 500,000	
Rumble Strip			\$ -	\$ -	
Barriers and Guardrails			\$ -	\$ -	
Left Turn Channelization			\$ -	\$ -	
Highway Planting	<u>1</u>	LS	\$ 75,000	\$ 75,000	
-Concrete Barrier (Type 60C)		LF	\$ 75	\$ -	
-Asphalt Concrete (.67' Depth)		TON	\$ 100.00	\$ -	
-Aggregate Base (1.5' Depth)		CY	\$ 50.00	\$ -	
-Roadway Excavation		CY	\$ 20.00	\$ -	
-Remove Metal Beam Guardrail		LF	\$ 35.00	\$ -	
Replacement Planting			\$ -	\$ -	
Irrigation Modification			\$ -	\$ -	
Relocate Private Irrigation Facilities			\$ -	\$ -	
Erosion Control			\$ -	\$ -	
Slope Protection			\$ -	\$ -	
Water Pollution Control			\$ -	\$ -	
Hazardous Waste Mitigation Work			\$ -	\$ -	
Environmental Mitigation			\$ -	\$ -	
Resident Engineer Office Space			\$ -	\$ -	
<b><u>Subtotal Specialty Items</u></b>					<b><u>\$ 875,000</u></b>

<b><u>Section 5. Traffic Items</u></b>	<b><u>Quantity</u></b>	<b><u>Unit</u></b>	<b><u>Unit Price</u></b>	<b><u>Item Cost</u></b>	<b><u>Section Cost</u></b>
Lighting		EA	\$ 6,000	\$ -	
Traffic Signals	<u>12</u>	EA	\$ 25,000	\$ 300,000	
Overhead Signs - Hanging from structure	<u>2</u>	EA	\$ 15,000	\$ 30,000	
Overhead Signs - WB On Ramp, at trap lanes, aux l	<u>1</u>	LS	\$ 750,000	\$ 750,000	
Construction Area Signs		EA	\$ 200	\$ -	
Traffic Control	<u>1</u>	LS	\$ 250,000	\$ 250,000	
Incl Traffic Control Systems				\$ -	
and Traffic Delineation Items				\$ -	
and Transportation Management Plan				\$ -	
Remove Signing and Striping	<u>29656</u>	LF	\$ 1.3	\$ 38,553	
Remove Pavement Marking	<u>1000</u>	SF	\$ 7.0	\$ 7,000	
Signing and Striping	<u>53520</u>	LF	\$ 1.7	\$ 90,984	
Pavement Marking	<u>2000</u>	SF	\$ 3.4	\$ 6,800	
<b><u>Subtotal Traffic Items Section</u></b>					<b><u>\$ 1,473,337</u></b>

**TOTAL SECTIONS 1 thru 5** \$ 8,850,700

**Section 6. Minor Items**

**Section Cost**

\$ 8,850,700 x (10%) = \$ 885,070  
(Subtotal Sections 1 thru 5)

**Subtotal Minor Items** \$ 885,070

**Section 7. Roadway Mobilization**

**Section Cost**

\$ 9,735,770 x (10%) = \$ 973,577  
(Subtotal Sections 1 thru 6)

**Subtotal Roadway Mobilization** \$ 973,577

**Section 8. Roadway Additions**

**Section Cost**

Supplemental Work  
\$ 9,735,770 x (10%) = \$ 973,577  
(Subtotal Sections 1 thru 6)

Contingencies  
\$ 9,735,770 x (25%) = \$ 2,433,943  
(Subtotal Sections 1 thru 6)

**Subtotal Roadway Additions** \$ 3,407,520

**TOTAL ROADWAY ITEMS** \$ 14,116,867  
(Subtotal Sections 1 thru 8)

**CALL** \$ 14,120,000

**Estimate Prepared By** Christine Jansen **Phone #** (916) 781-3835 **Date** Oct-08  
(Print Name)

**Estimate Checked By** Sandy Wong **Phone #** (916) 960-4330 **Date** Oct-08  
(Print Name)

## II. STRUCTURES ITEMS

	Structure I	Structure II	Structure III
Bridge Name	<u>Erle Road OC Widening</u>	<u>Erle OH Widening</u>	<u>Erle Rd On-ramp OH</u>
Structure Type	<u>CIP P/S</u>	<u>CIP P/S</u>	<u>CIP P/S</u>
Width (out to out) - (ft)	<u>Varies</u>	<u>Varies</u>	<u>26'-10"</u>
Length - (ft)	<u>253'-10 5/8"</u>	<u>143'-3 5/8"</u>	<u>647'-0"</u>
Total Area -(ft <sup>2</sup> )	<u>10715</u>	<u>6910</u>	<u>17361</u>
Footing Type (pile/spread)	<u>Assumed 16" CIDH</u>	<u>Assumed 16" CIDH</u>	<u>16" CIDH</u>
Cost per ft <sup>2</sup>			
Incl 10% mobilization and 25% contingency)	<u>\$ 207</u>	<u>\$ 219</u>	<u>\$ 195</u>
Bridge Removal	<u>\$ 19,000</u>	<u>\$ 37,000</u>	
Total Cost For Structure	<u>\$ 2,240,000</u>	<u>\$ 1,550,000</u>	<u>\$ 3,390,000</u>

**Subtotal Structures Items** \$ 7,180,000  
(Sum of Total Cost for Structures)

<b>Railroad Related Costs:</b>	<u>\$ -</u>
	<u>\$ -</u>
	<u>\$ -</u>
<b>Subtotal Railroad Items</b>	<u>\$ -</u>

**TOTAL STRUCTURES ITEMS** \$ 7,180,000  
(Sum of Structures Items plus Railroad Items)

**COMMENTS:** See APS approved 12/15/2008 by AD

<b>Estimate Prepared By</b>	<u>Christine Jansen</u> (Print Name)	<b>Phone #</b>	<u>(916) 781-3835</u>	<b>Date</b>	<u>Oct-08</u>
<b>Estimate Checked By</b>	<u>Sandy Wong</u> (Print Name)	<b>Phone #</b>	<u>(916) 960-4330</u>	<b>Date</b>	<u>Oct-08</u>

**III. RIGHT OF WAY ITEMS**

	ESCALATED VALUE
A. Acquisition, including excess lands, damages to remainder(s) and Goodwill	\$ 2,125,801
B. Utility Relocation (State Share)	\$ 250,000
C. Relocation Assistance	\$ 30,000
D. Clearance/Demolition	\$ -
E. Title and Escrow Fees	\$ 21,000

**TOTAL RIGHT OF WAY ITEMS** \$ 2,430,000

Anticipated Date of Right of Way Certification: \_\_\_\_\_  
(Date to which Values are Escalated)

**F. Construction Contract Work**

Brief Description of Work:

---

---

---

---

Right of Way Branch Cost Estimate for Work\* \$ -

\*This dollar amount is to be included in the Roadway  
and/or Structures Items of Work, as appropriate.  
Do not include in Right of Way Items.

**COMMENTS:**

<b>Estimate Prepared By</b>	Christine Jansen (Print Name)	<b>Phone #</b>	(916) 781-3835	<b>Date</b>	Oct-08
<b>Estimate Checked By</b>	Sandy Wong (Print Name)	<b>Phone #</b>	(916) 960-4330	<b>Date</b>	Oct-08